

Seal Bond® CS-5300 Self Leveling Concrete Joint Sealant

Description

Seal Bond® CS-5300 is a single component, moisture-curing, self-leveling sealant designed for horizontal joints in concrete and cementitious construction. **Seal Bond® CS-5300** is ideal for joints involving both pedestrian and vehicular traffic.

Seal Bond® CS-5300 is composed of a hybrid polymer system that allows for application on new concrete, damp surfaces, and inclement weather conditions that challenge traditional sealants. There is no “out-gassing” that could compromise the function, or aesthetics, of **Seal Bond® CS-5300**.

Seal Bond® CS-5300 is 100% solids, isocyanate and solvent-free. It can be used on both interior and exterior applications with no workplace concerns.

While **Seal Bond® CS-5300** tolerates incidental and temporary exposure to water, it should not be considered for applications requiring continuous immersion, unless used in combination with the appropriate concrete primer. For applications involving specific and prolonged chemical exposure, there are other Seal Bond products to consider.

Applications may include:

- Plaza decks
- Pavement
- Warehouses
- Sidewalks
- Terraces
- Balconies
- Driveways
- Factories
- Parking decks
- Bridges
- Roofs
- High-rise buildings

Advantages:	Benefits:
One component	<i>No mixing – Easy to use</i>
Self-leveling	<i>No tooling required</i>
Solvent and isocyanate free, 100% solids	<i>Safe to use, low shrinkage</i>
Non-silicone	<i>Does not stain substrates</i>
Paintable	<i>Color matching</i>
Low odor	<i>Safe to use in confined areas</i>
Primerless bonding to most surfaces	<i>Consistent ease of use</i>
Mildew resistant	<i>Remains clean and durable</i>
U/V protected	<i>Excellent weathering characteristics</i>

Packaging:

10.3 fluid oz (305 ml) cartridges
28 fluid oz (830 ml) cartridges
5 gallon plastic pail

Colors: Gray

Physical Properties

Composition: Proprietary Hybrid Polymer
Odor: Nil (mild Ester)

Consistency: Paste
Weathering Resistance: Excellent

Test Data

Elongation at break	615%	ASTM D-412
Tensile	150 psi	ASTM D-412
Hardness Shore A	20	ASTM C-661
Tack Free Time	64 minutes	ASTM D-679
Shrinkage	No measurable shrinkage after 14 days	
Low Temperature Flex	Pass, -20°F	ASTM C-711
Service Temperature	-40°F to 200°F, continuous service	Temporarily resistant to 390°F

Storage and Shelf Life

Unopened containers should be stored in a cool, dry environment between 40°F and 80°F, and protected from water, heat, and direct sunlight. Shelf life when properly stored is 10 months from date of manufacture.

Surface Preparation

All surfaces should be clean and free of all possible contaminants that would affect the function of **Seal Bond® CS-5300**. This includes oil, grease, tar, dirt and other foreign materials. While damp surfaces are acceptable, all standing or pooled water should be removed. Surfaces should be frost-free.

Surface Priming

While priming could always be an advantage, it should not be required, except in cases of extreme service performance expectations or prolonged water immersion.

Joint Design

ASTM and SWRI guidelines recommend a joint width to joint depth ratio of 2:1, with the depth no more than ½ inch, but no less than ¼ inch. A backer rod or bond breaker tape should be utilized to prevent 3-point adhesion and to ensure proper functionality of **Seal Bond® CS-5300**. The backer rod sizing should be 25% larger than the joint width to ensure a snug fit.

Joint Width (in)	Joint Width (mm)	Joint Depth (in)	Joint Depth (mm)
1/4-1/2	6-13	1/4	6
1/2-3/4	13-19	1/4-3/8	6-10
3/4-1	19-25	3/8-1/2	10-13
1-2	25-50	1/2	13

IELD LINEAR FEET PER GALLON – Approximately 12.5 cartridges per gallon

Inches	1/4	3/8	1/2	5/8	3/4	7/8	1
1/4	308	205	154	122	-	-	-
3/8	-	-	-	82	68	58	51
1/2	-	-	-	-	51	44	38

Seal Bond® CS-5300 Application Instructions

Recommended application temperatures are between 40° and 100°F. If applied at lower temperatures, the self-leveling and cure characteristics will be affected. Ideally, joint sealing should occur at mid-exposure temperature range. This will properly address the expected expansion and contraction of the joint.

Dispense **Seal Bond® CS-5300** into the prepped joint in a controlled manner to prevent pockets of air from being trapped within the sealant. Since **Seal Bond® CS-5300** is self-leveling, no additional tooling of the sealant is required. **Seal Bond® CS-5300** should skin-over in approximately 60 minutes, depending upon atmospheric conditions and temperature. Recessed joints should be quickly ready for traffic, while flush joints should remain traffic-free until such time as the sealant is firm enough to handle rigors of traffic.

Clean-Up

Fresh, wet material can be removed with a light duty solvent, such as isopropyl alcohol. Mineral spirits could also be considered. Cured material will require mechanical methods of removal. Do not expose finished applications to excessive cleaning solvents.

Compliances

ASTM C920, Type S, Grade NS, Class 25/25, Uses NT, M, T, A, G and O.

Federal Specification TT-S-00230C, Type II, Class A

Canadian Standards Board CAN 19, 13-M87 Type 2

USDA Compliant for non-contact use in areas involving meat and poultry

LIMITED WARRANTY

Seal Bond warrants that our products are manufactured and conform to strict quality assurance specifications. Improper use or storage may void warranty. Buyer understands that it is their sole responsibility to test and determine the suitability of the product for their practical purposes. Buyer's sole remedy for breach of warranty shall be strictly and exclusively limited to a refund of up to 100% of the purchase price of the non-conforming goods. This is the sole and exclusive remedy and liability for defects or failure of this product. This warranty is in lieu of all other warranties, written or oral, statutory, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Manufacturer shall not otherwise be liable for losses or damages related to application methods and uses, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including negligence, warranty or strict liability. For complete warranty information visit www.seal-bond.com